

Ruler Detectives

Estimate, measure, and compare inches.

GRADE 2 • 2.MG.1.b.i

2.MG.1.b.i "Use U.S. Customary units to estimate, measure, and compare the two for reasonableness: the length of an object to the nearest inch, using a ruler;"

NAME _____

DATE _____

MEASURE IN INCHES

Put one end of an object at the 0 mark on a ruler. Read the number at the other end to find its length in inches. Ask if the length makes sense for the object.

WORKED EXAMPLE

A paintbrush begins at the start of a ruler and ends at the 7-inch mark. How long is it?

1. Line up the paintbrush with the start of the ruler.
2. Find the mark at the other end: 7.
3. Read the length: 7 inches.

Answer: 7 inches

PRACTICE 5 problems

- 1** A large paper clip is about ____ inches long. Circle 2, 6, or 12.

ANSWER _____

- 2** A toy bus begins at the start of a ruler and ends at the 9-inch mark. How long is the bus?

ANSWER _____

- 3** A doll's scarf starts at the 3-inch mark and ends at the 8-inch mark. How long is the scarf?

ANSWER _____

- 4** A pet collar tag is 4 inches long. A dog leash is 10 inches long. Which is longer?

ANSWER _____

- 5** A tiny bead is measured as 11 inches long. Is this reasonable? Write yes or no.

ANSWER _____

APPLY IT Show your work

- 1** Kai's toy rocket begins at the 0 mark and ends at the 6-inch mark. His toy plane is 9 inches long. Which toy is longer?

WORK SPACE

ANSWER _____

- 2** Avery measures a short snack straw as 3 inches long. Sam says the straw is 12 inches long. Does Sam's answer make sense?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A toy snake starts at the 2-inch mark and ends at the 12-inch mark. How long is the snake? Explain how you know.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A large paper clip is about ____ inches long. Circle 2, 6, or 12.	2 inches
2	A toy bus begins at the start of a ruler and ends at the 9-inch mark. How long is the bus?	9 inches
3	A doll's scarf starts at the 3-inch mark and ends at the 8-inch mark. How long is the scarf?	5 inches
4	A pet collar tag is 4 inches long. A dog leash is 10 inches long. Which is longer?	The dog leash.
5	A tiny bead is measured as 11 inches long. Is this reasonable? Write yes or no.	No.

PART 2 • APPLY IT

1. **The toy plane.** The rocket is 6 inches long. Since 9 is greater than 6, the toy plane is longer.
2. **No.** Avery measured the straw as 3 inches. A short straw cannot also measure 12 inches.

CHALLENGE

10 inches. It covers the space from 2 to 12, so $12 - 2 = 10$.

Accept "in." for inches. For the challenge, accept a correct count-up explanation from 2 to 12.